

FIG. 1

pABC (pBluescript KS-ABC, 6.4kb, Ap<sup>r</sup>)

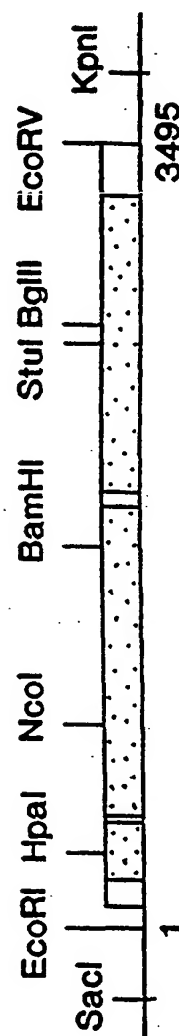


FIG. 2

FIGURE 3A

1	<sup>1</sup> GAATTCGATC (EcoRI)	CTGTCTCAAG	GCGTTTTGTT	GCTTTAAAGG	GCTTGTTTTT
51	GATATGATCA C START→	GTATTATATG	ACTTAACGGA	GAAATATGTG	GAGGTGGATC
101	ATATGTCACG	AATTTCAATA	GAAGAAGTAA	AGCACGTTGC	GCACCTTGCA
151	AGACTTGCGA	TTACTGAAGA	AGAAGCAAAA	ATGTTCACTG	AACAGCTCGA
201	CAGTATCATT	TCATTTGCCG	AGGAGCTTAA	TGAGGTTAAC	ACAGACAATG
251	TGGAGCCTAC	AACTCACGTG	CTGAAAATGA	AAAATGTCAT	GAGAGAAGAT
301	GAAGCGGGTA	AAGGTCTTCC	GGTTGAGGAT	GTCATGAAAA	ATGCGCCTGA
351	CCATAAAGAC A START→	GGCTATATTC	GTGTGCCATC	AATTCTGGAC	TAAAGGAGGG
401	ACACAAGAAT	GTCATTATTT	GATCATAAAA	TCACAGAATT	AAAACAGCTC
451	ATACATAAAA	AAGAGATTAA	GATTTCTGAT	CTGGTTGATG	AATCTTATAA
501	ACGCATCCAA	GCGGTTGATG	ATAAGGTACA	AGCCTTTTTG	GCATTAGATG
551	AAGAAAGACG	CGCGGCATAC	GCGAAGGAGC	TTGATGAGGC	GGTTGACGGC
601	CGTTCTGAGC	ACGGTCTTCT	TTTCGGTATG	CCGATCGGCG	TAAAAGATAA
651	TATCGTAACA	AAAGGGCTGC	GCACAACATG	CTCCAGCAAA	ATTCTCGAAA
701	ACTTTGATCC	GATTTACGAT	GCTACTGTCG	TTCAGCGCCT	TCAAGACGCT
751	GAAGCGGTCA	CAATCGGAAA	ACTGAACATG	GACGAATTCT	CCATGGGGTC
801	ATCTACAGAA	AACTCAGCTT	ACAAGCTGAC	GAAAAACCCCT	TGGAACCTGG
851	ATACAGTTCC	CGGCGGTTCA	AGCGGCGGAT	CTGCAGCTGC	GGTTGCTGCG
901	GGAGAAGTTC	CGTTTTCTCT	TGGATCTGAC	ACAGGCGGCT	CCATCCGTCA
951	GCCGGCATCT	TTCTGCGGCG	TTGTCGGATT	AAAACCTACA	TACGGACGTG
1001	TATCTCGTTA	CGGCCTGGTC	GCATTTGCGT	CTTCATTGGA	CCAAATCGGA
1051	CCGATTACAC	GTACGGTTGA	GGATAACGCG	TTTTTACTTC	AAGCGATTTC
1101	CGGCGTAGAC	AAAATGGACT	CTACGAGTGC	AAATGTGGAC	GTGCCTGATT
1151	TTCTTTCTTC	ATTAAGTGGC	GACATCAAAG	GACTGAAAAT	CGCCGTTCCG
1201	AAAGAATACC	TTGGTGAAGG	TGTCGGCAAA	GAAGCGAGAG	AATCTGTCTT
1251	GGCAGCGCTG	AAAGTCCTTG	AAGGTCTCGG	CGCTACATGG	GAAGAAGTGT
1301	CTCTTCCGCA	CAGTAAATAC	GCGCTTGCGA	CATATTACCT	GCTGTCATCT

FIGURE 3B

1351	TCTGAAGCGT	CAGCGAACCT	TGCACGCTTT	GACGGCATCC	GCTACGGCTA
1401	CCGCACAGAC	AACGCGGATA	ACCTGATCGA	CCTTTACAAG	CAAACGCGCG
1451	CTGAAGGTTT	CGGAAATGAA	GTCAAACGCC	GCATCATGCT	CGGAACGTTT
1501	GCTTTAAGCT	CAGGCTACTA	CGATGCGTAC	TACAAAAAAG	CGCAAAAAGT
1551	GCGTACGTTG	ATTAAGAAGG	ATTTGAGGA	CGTATTTGAA	AAATATGATG
1601	TTATTGTTGG	ACCGACTACA	CCGACACCTG	CGTTTAAAAT	CGGTGAAAAC,
1651	ACGAAGGATC	CGCTCACAAT	GTACGCAAAC	GATATCTTAA	CGATTCCGGT
1701	CAACCTTGCG	GCGTACCGGG	AATCAGGTGC	CATGCGGTTA	GCAGACGGAC
1751	TTCCGCTCGG	CCTGCAAATC	ATCGGAAAAC	ACTTTGATGA	AGCACTGTAT
1801	ACCGCGTTGC	TCATGCATTT	GAACAAGCAA	CAGACCATCA	TAAAGCAAAA
		B			
		START→			
1851	CCTGAACTGT	AAGGGGTGAA	AAGAATTGAA	CTTTGAAACG	GTAATCGGAC
1901	TTGAAGTCCA	CGTTGAGTTA	AAAACAAAAT	CAAAAATTTT	CTCAAGCTCT
1951	CCAACGCCAT	TCGGCGCGGA	GGCGAATACG	CAGACAAGCG	TTATTGACCT
2001	CGGATATCCG	GGCGTCCTGC	CTGTTCTGAA	CAAAGAAGCC	GTTGAATTCCG
2051	CAATGAAAGC	CGCTATGGCG	CTCAACTGTG	AGATCGCAAC	GGATACGAAG
2101	TTTGACCGCA	AAAACATTTT	CTATCCTGAC	AACCCGAAAG	CGTATCAGAT
2151	TTCTCAATTT	GATAAGCCAA	TCGGCGAAAA	CGGCTGGATC	GAAATTGAAG
2201	TCGGCGGCAA	AACAAAACGC	ATCGGCATCA	CGCGCCTTCA	TCTTGAAGAG
2251	GATGCCGGAA	AACTGACGCA	TACGGGCGAC	GGCTATTCTC	TTGTTGACTT
2301	CAACCGTCAA	GGAACGCCGC	TTGTTGAGTN	CGTATCAGAG	CCGGACATCC
2351	GCACGCCGGA	AGAANCGTAC	GCATATCTTG	AAAAGCTGAA	ATCCATCATC
2401	CAATATACAG	GCGTTTCTGA	CTGTAAAATG	GAAGAAGGCT	CACTTCGCTG
2451	TGACGCCAAT	ATCTCTCTTC	GTCCGATCGG	CCAAGAGGAA	TTCCGGCACAA
2501	AAACAGAATT	GAAAAACTTG	AACTCCTTTG	CGTTTGTTCA	AAAAGGCCTT
2551	GAGCATGAAG	AAAAACGCCA	GGAGCAGGTT	CTTCTTTCCG	GCTTCTTCAT
2601	CCAGCAAGAA	ACTCGCCGTT	ATGATGAARG	AACGAAGAAA	ACCATTCTTA
2651	TGCGTGTCAA	AGAGGGATCT	GACGACTACC	GTTACTTCCC	AGAGCCAGAT

GLUTR<sup>GLN</sup>AMIDOTRANSFERASE - A NOVEL ESSENTIAL TRANSLATIONAL COMPONENT

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FIGURE 3C

2701	CTAGTCGAGC	TCTACATTGA	TGATGAATGG	AAGGAACGCG	TAAAAGCAAG
2751	CATTCCTGAG	CTTCCGGATG	AGCGCCGCAA	GCGTTATATC	GAAGAGCTTG
2801	GCTTCGCTGC	ATATGACGCA	ATGGTTCTGA	CGCTGACAAA	AGAAATGGCT
2851	GATTTCTTCG	AAGAAACCGT	TCAAAAAGGC	GCTGAAGCTA	AACAAGCGTC
2901	TAACTGGCTG	ATGGGTGAAG	TGTCAGCTTA	CCTAAACGCA	GAACAAAAAG
2951	AGCTTGCCGA	TGTTGCCCTG	ACACCTGAAG	GCCTTGCCGG	CATGATCAAA
3001	TTGATTGAAA	AAGGAACCAT	TTCTTCTAAG	ATCGCGAAGA	AAGTGTTTAA
3051	AGAATTGATT	GAAAAAGGCG	GCGACGCTGA	GAAGATTGTG	AAAGAGAAAG
3101	GCCTTGTTCA	GATTTCTGAC	GAAGGCGTGC	TTCTGAAGCT	TGTCACTGAG
3151	GCGCTTGACA	ACAATCCTCA	ATCAATCGAA	GACTTTAAAA	ACGGAAAAGA
3201	CCGCGCGATC	GGCTTCCTAG	TCGGACAGAT	TATGAAAGCG	TCCAAAGGAC
3251	AAGCCAACCC	GCCGATGGTC	AACAAAATTC	TGCTTGAAGA	AATTAAAAAA
3301	CGCTAATAAA	AAAGCAGCCC	TTAGAGGCTG	CTTTTTTTAT	GGTCAAATTG
3351	AGATAAAGAC	AAGATGAGGG	CCCGAAGCCT	TTCAACTTCT	TTGTCGTTGG
3401	TTCCGGCCAA	ATTGGACAGC	ATGCCTTTAT	AATCGGCTTG	CGCGGTTTAT
3451	CCTGAGTCAA	TTCTTCCTCG	ATAAGATAAG	TGACACGGTG	3495
				<u>ATATC</u>	(EcoRV)